L 57008-65

ACCESSION MR: AP5011823

specimens are 0.5 (gause)² and 2 (gause)² higher for 0' a 0 and 0' \leq 45° respectively

the ansumption of a uniform distribution of intermulear vectors on the surface of a
come after the method of G. E. Fake (J. Jam. Phys. 5,)2/, 940. The supermitted
line shape was found to be considerably different from the originated one, and this
disprepancy is attributed in part to the neglect of V-type of ystallites in the

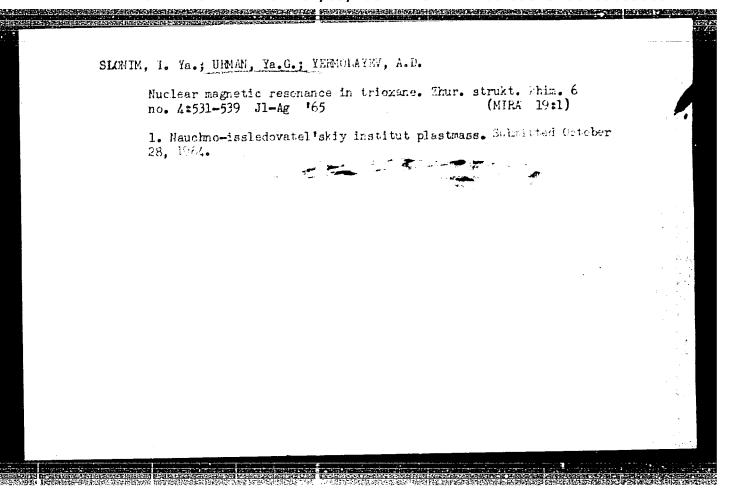
calculation. In the calculation of AH, of the line shape, and of the line width,
most of the weight was given to the Z-type orystallites. Vpre crystallites are
criented at 76°07' to the macroscopic orystallatie; Z-type of ystallites are parallel
to this axis. The calculated dependence of the line width of the angle 0' is in

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SIONIE, 1. Ya.; LYUBIROV, A.H.; URCAN, Ya.C.; ROBE YARET, c.G.; TOFFIER, A.F.

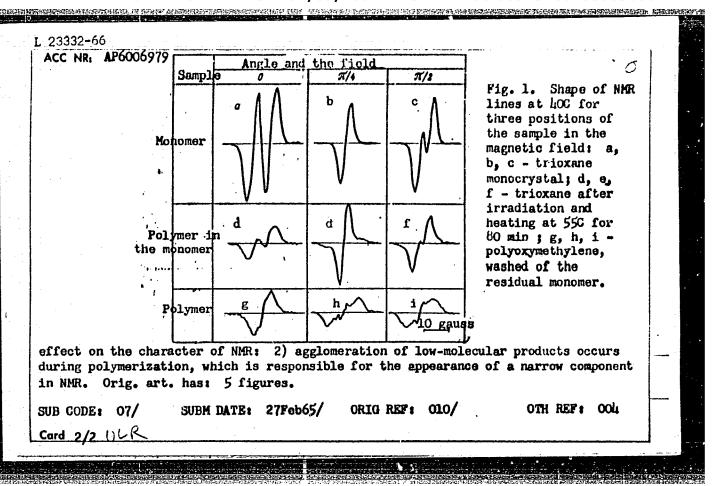
Shape of nuclear magnetic resonance lines in polymers when the second derivative absorption line is recorded. Tysokom. seed. 7 no.2:245-249 F 165. (MEA 18:3)

1. Hauchno-issledovnteliskiy institut plasticserkikh mass.



THE REPORT OF THE PROPERTY AND THE PROPERTY OF THE PROPERTY OF

EWT(m)/EPF(n)-2/EWP(j)/T/EWA(h)/EWA(1)GG/RM L 23332-66 SOURCE CODE: UR/0190/66/008/002/0251/0255 ACC NR: AP6006979 AUTHORS: Urman, Ya. G.; Slonim, I. Ya.; Yermolayev, A. D. ORG: Scientific Research Institute of Plastics (Nauchno-issledovatel'skiy institut plasticheskikh mass) TITLE: Investigation of the radiation polymerization of trioxand in solid phase (4th report in the series "Nuclear magnetic resonance in oriented polymers") SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 2, 1966, 251-255 TOPIC TAGS: radiation polymerization, nuclear magnetic resonance, trioxane ABSTRACT: Oriented radiation-induced polymerization of trioxane in solid phase has been investigated by NMR. This is an expansion of the work published earlier by Ya. G. Urman, I. Ya. Slonim, and A. D. Yermolayev (Vysokomolek. soyed., 6, 2107, 1964). The method for preparing monocrystalline trioxane and for its polymerization was described previously by I. Ya. Slonim, Ya. G. Urman, and A. D. Yermolayev (Zh. struct. khimii, 6, 531, 1965). NMR spectra were taken with a spectrometer of the Central Laboratory of Automation (Tsentral'naya Laboratoriya avtomatiki) at the frequency of 20 megahertz at 40C. Changes in the NMR spectra observed during the solid polymerization process are shown in Fig. 1. It was observed that: 1) during postpolymerization of the irradiated sample at 550, the shape and second moment of NMR line change sharply. The position of the sample in the field also has a significant UDC: 66.095.26+678.55 Card 1/2



AUTHOR:

Urman, E.L., Engineer.

THE HILLS CONTROL OF THE PROPERTY OF THE PROPE

TITIE:

The application of the principle of the harmonic balance to investigate the conditions of synchronisation of synchronous machines. (Primeniye printsipa garmonicheskogo balansa dlya issledovaniya usloviy sinkhronizatsii mashin.)

PERIODICAL: "Vestnik Elektropromyshlennosti" (Journal of the Electrical Industry) Vol. 28, No. 4, pp. 54 - 59 (U.S.S.R.) 1917

ABSTRACT:

For the investigation of the conditions of synchronisation and synchronous running of synchronous machines use is usually made of methods that are based either on study of motion of the machine rotor during the transitional process or those using energy relationships that occur during the process of synchronisation. The method proposed in the present work is based on study of the conditions of establishment of steady periodic motion of the rotor and application of the principle of harmonic balance in the form proposed by Goldfarb. This principle had to be developed further before it could be used for this purpose.

Application of the principle of the harmonic balance is particularly effective for determination of the conditions of synchronisation and synchronous operation in cases when the non-linear differential equations of the process of synchronisation are of a high order. As the method can also be used for a number of other problems besides synchronisation the general case is examined of the equation of the synchronisation The equation is formulated and it is pointed out process.

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The application of the principle of the harmonic balance to investigate the conditions of synchronisation of synchronous machines (Cont).

that synchronism may be considered as one of the kinds of steady motion of the system characterised by constancy of the angle & and the slip being zero. Two other kinds of steady motion are also possible; periodic motion of the first and second order. When the angle & and the slip are periodic functions of time the motion is said to be of the first order, and when the angle & increases continuously with time and the slip remains limited by a periodic time function the motion is said to be of the second order. To find the conditions of synchronisation and synchronous operation it is necessary to determine the conditions under which these periodic motions are absent. To solve this problem it is necessary to solve equations containing non-linear elements. These are plotted and graphical procedures are used to determine the conditions of oscillation for periodic motions of the second order, to determine the stability of oscillation and to determine the conditions of existence of periodic motion of the second order and the parameters of oscillation during periodic motions of the first order.

The method is compared with other published methods for the case of a synchronous machine for which the synchronisation process is described by a simplified second order

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The application of the principle of the harmonic balance to investigate the conditions of synchronisation of synchronous machines. (Cont.)

differential equation. The divergence in the results of calculation of the critical slip by the two given methods does not exceed 15 - 18%.

5 figures, 4 literature references (3 Russian).

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858030004-2"

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AUTHOR:

Urman, Ye.L. (Moscow)

103-19-6-10/13

TITLE:

On the Transfer Function of a Direct Current Motor Controlled by Changing the Exciting Voltage(O peredatochnoy funktsii dvigatelya postoyannogo toka, upravlyayemogo izmenen-

iyem napryazheniya vozbuzhdeniya)

PERIODICAL:

Avtomatika i telemekhanika, 1958, Vol 19, Nr 6,

pp 609 - 613 (USSR)

ABSTRACT:

A formula for the transfer function of a motor is derived here. Beside the electromechanical time constants and the time constants of the exciter-winding circuit and that of the armature circuit the effect of the series-wound exciter winding was also taken into account in this formula. The pertinent structural diagram is given. Formulae (16) to (20) are derived for the transfer functions of the elements in the structural diagram. When the voltage in the exciting circuit is assumed as the input coordinate and the angular velocity as the output coordinate, the formula (21) is obtained for the complete transfer function of the motor. The influence exerted by the series-wound exciter winding of the motor upon the stability of the system is followed in the example of a system for sta-

Card 1/2

On the Transfer Function of a Direct Current Motor 103-19-6-10/13 Controlled by Changing the Exciting Voltage

bilizing the frequency of the output voltage of the electrodynamic transformer (consisting of a d.c. motor and an a.c. generator). There are 4 figures and 2 references, which are Soviet.

SUBMITTED: April 4, 1957

1. Servo motors--Circuits

Card 2/2

16:6800

69945

AUTHORS:

TITLE:

Kagan, B. M., Doctor of Technical Sciences, S/105/60/000/04/007/024

Urman, Ye. L., Candidate of Technical

B007/B008

PROTECTION OF THE PROPERTY OF

Sciences

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Selection of Differential Equations for Transients of a Synchronous

Generator in Investigating the Dynamic Stability on Computers

PERIODICAL:

Elektrichestvo, 1960, Nr 4, pp 37 - 42 (USSR)

TEXT: The results of investigations with the aid of the digital computer M-3 28 are given here. These investigations had the purpose of clarifying the influence of various factors such as saturation, attenuation system, transformer emf in the stator windings, etc. on the calculated value of the dynamic stability limit in the first oscillation cycle. The investigations were based on the method of computing the dynamic stability limit on automatic digital computers described in the paper (Ref 2). This machine searches automatically two limiting values of the angle δ, and of the power transmitted for operation before the disturbance, respectively. These two values differ, at the most, by the predetermined amount, and satisfy the condition as follows: the generator keeps its stability in the first oscillation cycle for the lower limiting value of δ while the generator falls out of step at the higher limiting value. The transmitted power corresponding to the lower limiting value of the angle δ is considered as the limit of dynamic

Card 1/3

Selection of Differential Equations for Transients of a Synchronous Generator in Investigating the Dynamic Stability on Computers

69945 S/105/60/000/04/007/024 B007/B008

stability. The fact that the computation result is marked by a figure, the dynamic stability limit, is the advantage of this method. The circuit for computing the transmission is shown in figure 1. The case of a short circuit in 3 phases with a duration of t short circuit = 0.12 seconds in the first section behind the transformer, with following switch-off of the damaged section of one circuit, is investigated. Equations (1) to (12) - a complete system of equations by Gorev-Park - are written down for the transients of a synchronous machine. The method by Runge-Kutt (Ref 2) was used for numerical integrating on the automatic digital computer. The programs for the digital computer and the computations on 10 the M-3 were carried out by A. P. Rozentsveyg. A comparison of the results obtained shows that at the short circuit in 3 phases near the generator the saturation of the generator exerts the highest influence on the dynamic stability of a generator feeding the rails of infinite power over a long-distance power line. It is pointed out in this connection that the statement made in the paper (Ref 3) regarding the slight influence of saturation on the character of the variation of angle δ in the first oscillation cycle, and on the dynamic stability limit to be determined after the first cycle, does not conform to the results obtained

Card 2/3

69945

Selection of Differential Equations for Transients of a Synchronous Generator in Investigating the Dynamic Stability on Computers

S/105/60/000/04/007/024 B007/B008

here. A comparison of the computations by the complete equations by Gorev-Park with the computations by the simplified equations which do not consider the stator emf shows that the consideration of this emf widens the limit of dynamic stability by 1.5%. The computations also showed that a consideration of the attenuation system exerts little influence on the stability limit in the case investigated here. There are 4 figures, 2 tables, and 4 Soviet references.

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ASSOCIATION: VNIIEM (VNIIEM)

SUBMITTED:

July 17, 1959

Card 3/3

KAGAN, B.M., doktor tekhn.nauk, URMAN, Ye.I., kand.tekhn.nauk

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Mathematical simulation of a power transmission system containing a synchronous generator with an excitation regulator of strong action. Elektrichestvo no.8:1-9 Ag 160.

(MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektromekhanikia... (Electric power distribution)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858030004-2"

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KAGAH, B.M., doktor tekhn.nauk; UR'AH, Ye.L., kand.tekhn.nauk

Use of digital computers for calculating transient processes in synchronous machinery using differential equations with periodic coefficients. Elektrichestvo no.4:43-48 Ap '61.

(MIRA 14:8)

1. Vsesoyuznyy nauchno-issldeovatel'skiy institut elektromekhaniki.
(Electronic digital computers)
(Electric machinery)

URMAN, Te.L., kand.tekhn.nauk

Some problems in the application of calculating machines for the automation of industrial processes. Prom.energ. 17 no.10:

(MIRA 15:9)

(Factory management—Automation)

(Electronic calculating machines)

KAGAN, B.M., doktor tokhn. nauk; URMAN, Ye.L., kand. tekhn. nauk

Use of computers in studying electromechanical transients
in systems containing synchronous generators. Vest. Elektroprom. 34 no.7:20-29 Jl '63.

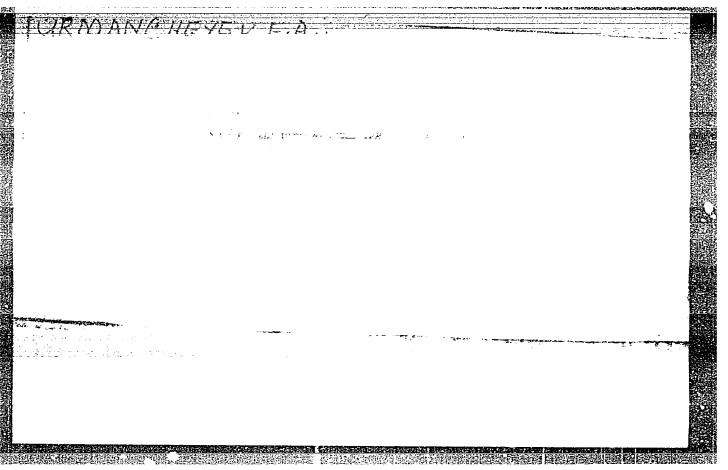
(MIRA 16:8)

ROBINZON, Ye.A.; GRISHINA, O.N.; MUKHAMEDOVA, L.A.; URMANCHEYEV, F.A.; IZMAYLOV, R.I.; BONCHER, L.Ye.; KASHAYEV, S.-Kh.G.; AMIRKHAMOVA, N.G.; GONIK, V.K,; BAYBUROVA, M.Kh.; NECHAYEVA, M.A.

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Petroleums of the Tatar A.S.S.R. Izv.Kazan.fil.AN SSSR.Ser.khim.
nauk no.4:93-113 '57. (MIRA 12:5)
(Tatar A.S.S.R.--Petroleum)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858030004-2"



62-58-3-11/30 AUTHORS: Urmancheyev, F. A., Robinzon, Ye. A., Kashayev, Kh. G., Le, B. TITLE: Determination of the Individual Hydrocarbon Composition of the Gasolines From the Petroleum of Tatarstan. (Opredeleniye individual'nogo uglevodorodnogo sostava benzinov neftey Tatarii) Communication 2. Gasoline From the Oil of the Romashkinskoye Deposit (Minnibayevskaya Area) (Soobshcheniye 2. Benzin iz nefti Romashkinskogo mestorozhdeniya (Minnibayevskaya ploshchad!)) PERIODICAL: Izvestiya Akademii Nauk SSSR Otdeleniye Khinicheskikh Hauk, 1958, Nr 3, pp. 324 - 327 (USSR) ABSTRACT: In the present paper the authors deal with the individual hydrocarbon composition of the gasolines (boiling point 150°C) of the Bavlinskaya and Romashkinskaya petroleums. They discuss the results of the investigation of benzine of the mineral oil of Minnebayevo. This investigation was performed according to a combined method which was further developed Card 1/2 by Kazanskiy and Landsberg. The gasoline from Minnabayevskaya

62-58-3-11/30
Estermination of the Individual Hydrocarbon Composition of the Gasolines
From the Petroleum of Tatarstan. Communication 2. Gasoline From the Oil of
the Romashkinskoye Deposit (Mannibayevskaya Area)

The gasolines from the Tuynazy oil are also similar to it. See the comparative tables 1 and 2. The gasolines of the petroleum wells of Tatary are inferior to those of Tuynazy, especially as regards the n.hexane- and n.peptane-content as well as the content of methylcyclopentane. For this see table 3. There are 3 tables and 4 references, 3 of which are Soviet.

ASSOCIATION: Khimicheskiy institut imeni A. Ye. Arbuzova Kazanskogo filiala

AN SSSR

(Chemical Institute imeni A. Ye. Arbuzova of the Kazan' Branch, AS USSR)

SUBMITTED: November 14, 1956

Card 2/2

LE, B.; IZMAYLOV, R.I.; UNMANCHEYEV, F.A.; LIPATOVA, I.P.

Determination of the individual hydrocarbon compatition of Tatar petroleums. Report No. 4: Ligroine obtained from Romashkino Doposit cridos. Izv. AN SSSR. Otd. khim. rauk no. 1:109-114 Ja '61. (MIFA 14:2)

1. Khimicheskiy institut im. A.Ye. Arbuzova Kazanskogo filiala AN SSSR.

(Ligroine)

LE, B.; IZMAYLOV, R.I.; URMANCHEYEV, F.A.; LIPATOVA, I.P.; KHASHAYEV, S.-Kh.G.; LAMANOVA, I.A.; BUKHARAYEVA, R.G.

Individual hydrocarbon composition of the petroleums of Tataria. Report No.5: Ligroine from the petroleum of the Bavly Oil Field. Izv. AN SSSR. Otd.khim.nauk no.7:1310-1315 Jl '61. (MIRA 14:7)

1. Khimicheskiy institut im. A.Ye. Arbuzova Kazanskogo filiala AN SSSR.

(Bavly region--Petroleum) (Ligroine)

LE, B.; URMANCHEYEV, F.A.; LIPATOVA, I.P.; BUKHARAYEVA, R.G.; LAMANOVA, I.A.

Determination of the individual hydrocarbon composition of oils

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Determination of the individual hydrocarbon composition of oils of the Tatar A.S.S.R.. Report No.6: Ligroin chained from petroleum of the Shugurovo oil field. Izv.AN SSSR.Otd.khim. nauk no.10:1858-1863 0 °61. (MIRA 14:10)

1. Kazanskiy institut organicheskoy khimii AN SSSR. (Shugurovo--Petroleum--Analysis) (Ligroin)

URMANCHEYEV, F.A.; LE, B.; BUKHARAYEVA, R.G.; LAMANOVA, I.A.; LIFATOVA, I.P.

Determination of the individual hydrocarbon composition of gasolines in oils of the Tatar A.S.S.R. Report No.7: Gasoline from Shugurovo oil fields. Izv.AN SSSR.Otd.khim.nauk no.11:2063-2065 N '61. (MIRA 14:11)

1. Institut organicheskoy khimii AN SSSR, Kazan'. (Shugurovo--Gasoline)

LE, B.; URMANCHEYEV, F.A.

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Certain regularities in the distribution of the individual hydrocarbon composition of ligroine of Tatar A.S.S.R. crudes. Khim.i tekh.topl.i masel 7 no.5:37-42 My 162. (MIRA 15:11)

1. Institut organicheskoy khimii AN SSSR, Kazanskiy filial. (Tatar A.S.S.R.--Petroleum) (Ligroine)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001858030004-2"

S/048/63/027/001/035/043 B125/B102

AUTHORS: Le, B., and Urmancheyev, F. A.

TITLE: Spectral study of the individual carbon: content of the ligroins of the mineral oils of Tatary

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 27, no. 1, 1963, 102 - 104

TEXT: A combined method was used to study some characteristic features of the hydrocarbon distribution in the ligroins of the Tatary deposits Romash-kino (C^{1Kis}), Shugurovo (C^{1Kis}), Al'met'yevsk (D_o, D_{III}), Bavly (D_{III}). The distribution of the hydrocarbons in the benzines of the same deposits has already been studied by B. Le (Izv. AN SSSR. Ser. fiz., 23, 1174 (1959)). The content of ordinary paraffins, and the total proportion of cyclopentane paraffin, are found to be distributed among geologic in accordance with established rules. n-decane, n-undecane and the naphthene p-paraffin hydrocarbons are found the least frequently in ligroin from the C¹Kis mineral oil and the most frequently in ligroin D_{III}. The n-nonane content decreases Card 1/2

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Spectral study of the ...

from the higher to the lower beds. The content of naphthene-paraffin hydrocarbons is the higher the less sulfur is contained in the mineral oil. All kinds of mineral oils contain all isomers of the alkyl benzenes except isopropyl benzene. The relative sums of the methyl ethyl benzenes and the isopropyl benzenes in the ligroins from the Romashkino, Bavly, and Shugurovo trimethyl benzenes in the ligroins from the Romashkino, Bavly, and Shugurovo correspond approximately to the equilibrium conditions at 455. The ratio between the n-propyl cyclohexane content and the isopropylcyclohexane content is ~3:1 in all beds. There are 1 figure and 4 tables.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk SSSR (Institute of Organic Chemistry of the Academy of Sciences USSR)

Card 2/2

LE, B.; URMANCHEYEV, F.A.; BARANENKO, S.Ye.; NOVIKOVA, Ye.F.; BUKHARAYEVA, R.G.; LAMANOVA, I.A.; KURZHUNOVA, Z.Z.

。 第一个人,我们就是一个人,我们就是一个人,我们们们的一个人,我们们们不是一个人,我们们们是一个人,我们们就是我们的一个人,我们就是这些人的人,我们就是我们就是

Determination of the individual hydrocarbon composition of gas to condensate fields of the Ukrainian SSR. Report No.1: Averaged generate condensate of the Shebelinka field. Izv. AN SSSR Ser.khim. no.10: (MIRA 17:3) 1809-1816 0 163.

1. Institut organicheskoy khimii AN SSSR, Kazan' i Vsesoyuznyy nauchno-issledovatel'skiy institut gaza, Khar'kov.

L 16933-65 EWT(m)/EPF(c)/T Pr-4 ACCESSION NR: AP5002835 S/0062/64/000/008/1484/1488 AUTHOR: La, B.: Urmancheyev, F. A.; Lipatove, I. P.; Bikherayeva, R. C.; Lameron e, i. A. TITLE: Determination of individual hydrocarbon composition of petroleum of Tataria. Report 8. Ligroin of Romashkinskiy deposit (Alimetiyevskoya area petroleum) SOURCE: AN SSSP. Izvestiya. Seriya khimicheskaya, no. 8, 1961, 1181-1188 TOPIC Tros: crude petroleum, hyd.ocerbon Abstract: The individual and group composition of Ligroin (150-200°) of petroleum from the Romachinskiy Deposit, Al'met'yevakaya Area, was investigated. 46 aromatic and hydrogromatic hydrocarbons were found. The 146-2050 fraction ($n^2\theta$ = 1,4362, $d^{2\theta}$ = 0 = 0 suffer content 2 126%) was departured = 1.4980:d^{20°} = 0.8747). A catalysate was obtained from NPCh-1 (yie). 88.7%; $n_D^{T} = 1.4330$, $d_L^{20} = 0.7767$, comprised of 864 naphthane-paraffin portion NPCh-2 and 11.7% aromatic hydrocarbons A2 (8.7% of ligroin and 9.1% in recalculation to converted six-memoer cyclanes). It was found that the Card 1/2

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ACCESSION NR: 415002835

ligroin contains 36.6% praction and 17.6% pentamethylene hydrocarbons.

About 30% of the naphthene-paraffin portion constitutes fractions II, VIII and XII, which are chiefly paraffin hydrocarbons of normal atrictive choices, normal decane, and normal undecane). Orig. ext. in 5 tables.

ASSOCIATION: Institut organichaskoy khimii Akademii nauk SSSR, Hazan' (Institute of Organic Chemistry, Academy of Sciences, SSSR)

SUEMITTED: 17Dec62

ENCL: 00

SUB CODE: FP

NO REF W.: 008

OTHER: COR

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Card 2/2

